

## SEQUENCE LISTING

<110> BIOGEN, INC  
BROWNING, Jeffrey

<120> BMOG, A Novel Protein Member of the  
Myelin-Oligodendrocyte Glycoprotein Family and Its Use for  
Immunomodulatory Purposes

<130> A041 US

<140> 09/560,855

<141> 2000-04-28

<150> PCT/US98/23826

<151> 1998-11-05

<150> 60/064761

<151> 1997-11-07

<160> 20

<170> FastSEQ for Windows Version 4.0

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<211> 671

<212> DNA

<213> Homo sapien

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420

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480

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540

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A041us.txt

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 780  
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## A041us.txt

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&lt;210&gt; 4

&lt;211&gt; 190

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 4

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Cys	Ala	Leu	Trp	Val	Ser	Gln	Pro	Pro	Glu	Ile	Arg	Thr	Leu	Glu	Gly
			20					25					30		
Ser	Ser	Ala	Phe	Leu	Pro	Cys	Ser	Phe	Asn	Ala	Ser	Gln	Gly	Arg	Leu
		35					40					45			
Ala	Ile	Gly	Ser	Val	Thr	Trp	Phe	Arg	Asp	Glu	Val	Val	Pro	Gly	Lys
	50					55				60					
Glu	Val	Arg	Asn	Gly	Thr	Pro	Glu	Phe	Arg	Gly	Arg	Leu	Ala	Pro	Leu
65					70					75					80
Ala	Ser	Ser	Arg	Phe	Leu	His	Asp	His	Gln	Ala	Glu	Leu	His	Ile	Arg
			85						90					95	
Asp	Val	Arg	Gly	His	Asp	Ala	Ser	Ile	Tyr	Val	Cys	Arg	Val	Glu	Val
			100					105					110		
Leu	Gly	Leu	Gly	Val	Gly	Thr	Gly	Asn	Gly	Thr	Arg	Leu	Val	Val	Glu
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Lys	Glu	His	Pro	Gln	Leu	Gly	Ala	Gly	Thr	Val	Leu	Leu	Leu	Arg	Ala
	130					135						140			

## A041us.txt

Gly Phe Tyr Ala Val Ser Phe Leu Ser Val Ala Val Gly Ser Thr Val  
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 Tyr Tyr Gln Gly Lys Cys His Cys His Met Gly Thr His Cys His Ser  
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 180 185 190

<210> 5  
 <211> 177  
 <212> PRT  
 <213> Homo sapien

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 Ser Ser Ala Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu  
 35 40 45  
 Ala Ile Gly Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys  
 50 55 60  
 Glu Val Arg Asn Gly Thr Pro Glu Phe Arg Gly Arg Leu Ala Pro Leu  
 65 70 75 80  
 Ala Ser Ser Arg Phe Leu His Asp His Gln Ala Glu Leu His Ile Arg  
 85 90 95  
 Asp Val Arg Gly His Asp Ala Ser Ile Tyr Val Cys Arg Val Glu Val  
 100 105 110  
 Leu Gly Leu Gly Val Gly Thr Gly Asn Gly Thr Arg Leu Val Val Glu  
 115 120 125  
 Lys Glu His Pro Gln Leu Gly Ala Gly Thr Val Leu Leu Arg Ala  
 130 135 140  
 Gly Phe Tyr Ala Val Ser Phe Leu Ser Val Ala Val Gly Ser Thr Val  
 145 150 155 160  
 Tyr Tyr Gln Gly Lys Tyr Ala Lys Ser Thr Leu Ser Gly Phe Pro Gln  
 165 170 175  
 Leu

<210> 6  
 <211> 201  
 <212> PRT  
 <213> Homo sapien

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 Ser Ser Ala Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu  
 35 40 45  
 Ala Ile Gly Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys

## A041us.txt

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Glu	Val	Arg	Asn	Gly	Thr	Pro	Glu	Phe	Arg	Gly	Arg	Leu	Ala	Pro	Leu	
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Ala	Ser	Ser	Arg	Phe	Leu	His	Asp	His	Gln	Ala	Glu	Leu	His	Ile	Arg	
				85					90					95		
Asp	Val	Arg	Gly	His	Asp	Ala	Ser	Ile	Tyr	Val	Cys	Arg	Val	Glu	Val	
			100					105					110			
Leu	Gly	Leu	Gly	Val	Gly	Thr	Gly	Asn	Gly	Thr	Arg	Leu	Val	Val	Glu	
		115					120					125				
Lys	Glu	His	Pro	Gln	Leu	Gly	Ala	Gly	Thr	Val	Leu	Leu	Leu	Arg	Ala	
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Gly	Phe	Tyr	Ala	Val	Ser	Phe	Leu	Ser	Val	Ala	Val	Gly	Ser	Thr	Val	
145					150					155					160	
Tyr	Tyr	Gln	Gly	Lys	Cys	Leu	Thr	Trp	Lys	Gly	Pro	Arg	Arg	Gln	Leu	
				165					170					175		
Pro	Ala	Val	Val	Pro	Ala	Pro	Leu	Pro	Pro	Pro	Cys	Gly	Ser	Ser	Ala	
			180					185					190			
His	Leu	Leu	Pro	Pro	Val	Pro	Gly	Gly								
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&lt;210&gt; 7

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 7

Met	Ala	Trp	Met	Leu	Leu	Leu	Ile	Leu	Ile	Met	Val	His	Pro	Gly	Ser	
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Cys	Ala	Leu	Trp	Val	Ser	Gln	Pro	Pro	Glu	Ile	Arg	Thr	Glu	Gly	Ser	
			20					25					30			
Ser	Ala	Phe	Leu	Pro	Cys	Ser	Phe	Asn	Ala	Ser	Gln	Gly	Arg	Leu	Ala	
		35					40					45				
Ile	Gly	Ser	Val	Thr	Trp	Phe	Arg	Asp	Glu	Val	Val	Pro	Gly	Lys	Glu	
	50					55					60					
Val	Arg	Asn	Gly	Thr	Pro	Glu	Phe	Arg	Gly	Arg	Leu	Ala	Pro	Leu	Ala	
65				70						75					80	
Ser	Ser	Arg	Phe	Leu	His	Asp	His	Gln	Ala	Glu	Leu	His	Ile	Arg	Asp	
				85				90					95			
Val	Arg	Gly	His	Asp	Ala	Ser	Ile	Tyr	Val	Cys	Arg	Val	Glu	Leu	Gly	
			100					105					110			
Leu	Gly	Val	Gly	Thr	Gly	Asn	Gly	Thr	Arg	Leu	Val	Val	Glu	Lys	Glu	
		115					120					125				
His	Pro	Gln	Leu	Gly	Ala	Gly	Thr	Val	Leu	Leu	Leu	Arg	Ala	Gly	Phe	
	130					135					140					
Tyr	Ala	Val	Ser	Phe	Leu	Ser	Val	Ala	Val	Gly	Ser	Thr	Val	Tyr	Tyr	
145					150					155					160	
His	Gly	Lys	Cys	His	Cys	His	Met	Gly	Thr	His	Cys	His	Ser	Ser	Asp	
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Gly	Val	Ile	Pro	Glu	Pro	Arg	Cys	Pro								
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## A041us.txt

<210> 8  
 <211> 175  
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 <213> Homo sapien

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 20 25 30  
 Ser Ala Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu Ala  
 35 40 45  
 Ile Gly Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys Glu  
 50 55 60  
 Val Arg Asn Gly Thr Pro Glu Phe Arg Gly Arg Leu Ala Pro Leu Ala  
 65 70 75 80  
 Ser Ser Arg Phe Leu His Asp His Gln Ala Glu Leu His Ile Arg Asp  
 85 90 95  
 Val Arg Gly His Asp Ala Ser Ile Tyr Val Cys Arg Val Glu Leu Gly  
 100 105 110  
 Leu Gly Val Gly Thr Gly Asn Gly Thr Arg Leu Val Val Glu Lys Glu  
 115 120 125  
 His Pro Gln Leu Gly Ala Gly Thr Val Leu Leu Leu Arg Ala Gly Phe  
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 Tyr Ala Val Ser Phe Leu Ser Val Ala Val Gly Ser Thr Val Tyr Tyr  
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 His Gly Lys Tyr Ala Lys Ser Thr Leu Ser Gly Phe Pro Gln Leu  
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 Ser Ala Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu Ala  
 35 40 45  
 Ile Gly Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys Glu  
 50 55 60  
 Val Arg Asn Gly Thr Pro Glu Phe Arg Gly Arg Leu Ala Pro Leu Ala  
 65 70 75 80  
 Ser Ser Arg Phe Leu His Asp His Gln Ala Glu Leu His Ile Arg Asp  
 85 90 95  
 Val Arg Gly His Asp Ala Ser Ile Tyr Val Cys Arg Val Glu Leu Gly  
 100 105 110  
 Leu Gly Val Gly Thr Gly Asn Gly Thr Arg Leu Val Val Glu Lys Glu  
 115 120 125

A041us.txt

His Pro Gln Leu Gly Ala Gly Thr Val Leu Leu Leu Arg Ala Gly Phe  
 130 135 140  
 Tyr Ala Val Ser Phe Leu Ser Val Ala Val Gly Ser Thr Val Tyr Tyr  
 145 150 155 160  
 His Gly Lys Cys Leu Thr Trp Lys Gly Pro Arg Arg Leu Pro Ala Val  
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 Pro Pro Val Pro Gly Gly  
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<210> 10  
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 <213> Homo sapien

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 Ser Ser Ala Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu  
 35 40 45  
 Ala Ile Gly Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys  
 50 55 60  
 Glu Val Arg Asn Gly Thr Pro Glu Phe Arg Gly Arg Leu Ala Pro Leu  
 65 70 75 80  
 Ala Ser Ser Arg Phe Leu His Asp His Gln Ala Glu Leu His Ile Arg  
 85 90 95  
 Asp Val Arg Gly His Asp Ala Ser Ile Tyr Val Cys Arg Val Glu Leu  
 100 105 110  
 Gly Leu Gly Val Gly Thr Gly Asn Gly Thr Arg Leu Val Val Glu Lys  
 115 120 125  
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 145 150 155 160  
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<210> 11  
 <211> 185  
 <212> PRT  
 <213> Homo sapien

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 Arg Val Ile Gly Pro Arg His Pro Ile Arg Ala Leu Val Gly Asp Glu

## A041us.txt

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Arg	Asn	Gly	Lys	Asp	Gln	Asp	Gly	Asp	Gln	Ala	Pro	Glu	Tyr	Arg	Gly		
				85					90					95			
Arg	Thr	Glu	Leu	Leu	Lys	Asp	Ala	Ile	Gly	Glu	Gly	Lys	Val	Thr	Leu		
			100					105					110				
Arg	Ile	Arg	Asn	Val	Arg	Phe	Ser	Asp	Glu	Gly	Gly	Phe	Thr	Cys	Phe		
		115					120					125					
Phe	Arg	Asp	His	Ser	Tyr	Gln	Glu	Glu	Ala	Ala	Met	Glu	Leu	Lys	Val		
	130					135					140						
Glu	Asp	Pro	Phe	Tyr	Trp	Val	Glu	Asp	Pro	Phe	Tyr	Trp	Val	Ser	Pro		
145					150					155					160		
Gly	Val	Leu	Val	Leu	Leu	Ala	Val	Leu	Pro	Val	Leu	Leu	Leu	Gln	Ile		
				165					170					175			
Thr	Val	Gly	Leu	Val	Phe	Leu	Cys	Leu									
			180					185									

<210> 12  
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 <212> PRT  
 <213> Rat

<400> 12

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			20					25					30				
Ile	Gly	Pro	Gly	His	Pro	Ile	Arg	Ala	Leu	Val	Gly	Asp	Glu	Ala	Glu		
		35					40				45						
Leu	Pro	Cys	Arg	Ile	Ser	Pro	Gly	Lys	Asn	Ala	Thr	Cys	Met	Glu	Val		
	50					55					60						
Gly	Trp	Tyr	Arg	Ser	Pro	Phe	Ser	Arg	Val	Val	His	Leu	Tyr	Arg	Asn		
65				70					75					80			
Gly	Lys	Asp	Gln	Asp	Ala	Glu	Gln	Ala	Pro	Glu	Tyr	Arg	Gly	Arg	Thr		
				85					90				95				
Glu	Leu	Leu	Lys	Glu	Ser	Ile	Gly	Glu	Gly	Lys	Val	Ala	Leu	Arg	Ile		
			100					105					110				
Gln	Asn	Val	Arg	Phe	Ser	Asp	Glu	Gly	Gly	Tyr	Thr	Cys	Phe	Phe	Arg		
		115					120					125					
Asp	His	Ser	Tyr	Gln	Glu	Glu	Ala	Ala	Val	Glu	Leu	Lys	Val	Glu	Asp		
	130					135					140						
Pro	Phe	Tyr	Trp	Ile	Asn	Pro	Gly	Val	Leu	Ala	Leu	Ile	Ala	Leu	Val		
145					150					155					160		
Pro	Met	Leu	Leu	Leu	Val	Ser	Val	Gly	Leu	Val	Phe	Leu	Phe	Leu			
				165					170						175		

<210> 13  
 <211> 175



A041us.txt

<212> PRT

<213> Mouse

<400> 13

Met	Ala	Cys	Leu	Trp	Ser	Phe	Ser	Trp	Pro	Ser	Cys	Phe	Leu	Ser	Leu
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Leu	Leu	Leu	Leu	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Tyr	Ala	Gly	Gln	Phe
			20					25					30		
Arg	Val	Ile	Gly	Pro	Gly	Tyr	Pro	Ile	Arg	Ala	Leu	Val	Gly	Asp	Glu
		35					40					45			
Ala	Glu	Leu	Pro	Cys	Arg	Ile	Ser	Pro	Gly	Lys	Asn	Ala	Thr	Gly	Met
	50					55					60				
Glu	Val	Gly	Trp	Tyr	Arg	Ser	Pro	Phe	Ser	Arg	Val	Val	His	Leu	Tyr
65					70					75					80
Arg	Asn	Gly	Lys	Asp	Ala	Glu	Gln	Ala	Pro	Glu	Tyr	Arg	Gly	Arg	Thr
				85					90					95	
Glu	Leu	Leu	Lys	Glu	Thr	Ile	Ser	Glu	Gly	Lys	Val	Thr	Leu	Arg	Ile
			100					105					110		
Gln	Asn	Val	Arg	Phe	Ser	Asp	Glu	Gly	Gly	Tyr	Thr	Cys	Phe	Phe	Arg
		115					120					125			
Asp	His	Ser	Tyr	Gln	Glu	Glu	Ala	Ala	Met	Glu	Leu	Lys	Val	Glu	Asp
	130					135					140				
Pro	Phe	Tyr	Trp	Val	Asn	Pro	Gly	Val	Leu	Thr	Leu	Ile	Ala	Leu	Val
145					150					155					160
Pro	Thr	Ile	Leu	Leu	Val	Ser	Val	Gly	Leu	Val	Phe	Leu	Phe	Leu	
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<210> 14

<211> 90

<212> DNA

<213> Chicken

<220>

<221> misc\_feature

<222> (1)...(90)

<223> n = A,T,C or G

<400> 14

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dgmykgrtrd gsdgndrtav tssdsgsysc  
90

<210> 15

<211> 123

<212> PRT

<213> Homo sapien

<400> 15

Met	Ala	Ser	Ser	Leu	Ala	Phe	Leu	Leu	Leu	Asn	Phe	His	Val	Ser	Leu
1				5					10					15	

## A041us.txt

Leu Leu Val Gln Leu Leu Thr Pro Cys Ser Ala Gln Phe Ser Val Leu  
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 Gly Pro Ser Gly Pro Ile Leu Ala Met Val Gly Glu Asp Ala Asp Leu  
                   35                  40                  45  
 Pro Cys His Leu Phe Pro Thr Met Ser Ala Glu Thr Met Glu Leu Lys  
                   50                  55                  60  
 Trp Val Ser Ser Leu Arg Gln Val Val Asn Val Tyr Ala Asp Gly Lys  
   65                  70                  75                  80  
 Glu Val Glu Asp Arg Gln Ser Ala Pro Tyr Arg Gly Arg Thr Ser Ile  
                   85                  90                  95  
 Leu Arg Asp Gly Ile Thr Ala Gly Lys Ala Ala Leu Arg Ile His Asn  
                   100                  105                  110  
 Val Thr Ala Ser Asp Ser Gly Gln Leu Glu Cys  
                   115                  120

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 Ile Leu Leu Gln Leu Pro Lys Leu Asp Ser Ala Pro Phe Asp Val Ile  
                   20                  25                  30  
 Gly Pro Pro Glu Pro Ile Leu Ala Val Val Gly Glu Asp Ala Glu Leu  
                   35                  40                  45  
 Pro Cys Arg Leu Ser Pro Asn Val Ser Ala Lys Gly Met Glu Leu Arg  
                   50                  55                  60  
 Trp Phe Arg Glu Lys Val Ser Pro Ala Val Phe Val Ser Arg Glu Gly  
   65                  70                  75                  80  
 Gln Glu Gln Glu Gly Glu Glu Met Ala Glu Tyr Arg Gly Arg Val Ser  
                   85                  90                  95  
 Leu Val Glu Asp His Ile Ala Glu Gly Ser Val Ala Val Arg Ile Gln  
                   100                  105                  110  
 Glu Val Lys Ala Ser Asp Asp Gly Glu Tyr Arg Cys  
                   115                  120

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 Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys  
                   20                  25                  30  
 Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu  
                   35                  40                  45  
 Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile

## A041us.txt

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Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp				
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Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr				
	85		90	95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly				
	100		105	110
Thr Tyr Glu Cys				
	115			

<210> 18  
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 <212> PRT  
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<400> 18
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Pro Cys Gln Phe Ala Asn Ser Gln Asn Gln Ser Leu Ser Glu Leu Val
35 40 45
Val Phe Trp Gln Asp Gln Glu Asn Leu Val Leu Asn Glu Val Tyr Leu
50 55 60
Gly Lys Glu Lys Phe Asp Ser Val His Ser Lys Tyr Met Gly Arg Thr
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Ser Phe Asp Ser Asp Ser Trp Thr Leu Arg Leu His Asn Leu Gln Ile
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Lys Asp Lys Gly Leu Tyr Gln Cys
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<210> 20  
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 <213> Homo sapien

<400> 20  
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 58